

What is claimed is:

1. An automatic ID allocator for AV/C entities, comprising in combination:

a memory space in one or more AV/C units;

a recursive entity ID search routine within said memory space;

means within said recursive routine for identifying first available class IDs for entities; and

means for assigning said identified IDs to said entities.

2. A method for assigning enumerated identifiers to AV/C entities, comprising in combination:

checking a first available ID for availability;

assigning said ID if available to the requested entity in an entity list;

and

utilizing said ID for the entity.

3. The method of claim 2 further comprising recursively checking each next ID for availability if said first ID is unavailable.

4. The method of claim 3 further comprising making an unavailable ID available upon disconnection of associated entities.

5. In a memory space, an automatic ID allocator for AV/C entities, comprising in combination:

a recursive entity ID search routine within the memory space;

means within said recursive routine for identifying first available class IDs for entities; and

means for assigning said identified IDs to said entities.

6. The allocator of claim 5 further comprising means for reassigning previously utilized ID instances when said instances are no longer in use.